



Zirconium

Customized Machined & Fabricated Metal and Alloy Products

Meets or Exceeds ASTM Specifications
Trusted 20Yr+ Supplier in the USA Market

Standard Specification

- ASTM B551 Zirconium and Zirconium Alloy Strip, Sheet, and Plate
- ASTM B550 Zirconium and Zirconium Alloy Bar and Wire
- ASTM B523M Seamless and Welded Zirconium and Zirconium Alloy Tubes

Zirconium & Zirconium Alloy

- Grade R60702 – Unalloyed Zirconium
- Grade R60705 – Zirconium-Niobium
- Low Hafnium Crystal Zirconium
- High Hafnium Crystal Zirconium

Benefits

99.95% Crystal Zirconium Materials
Exceeds ASTM Standards

Zirconium Metal & Compound Products

Product	Standard
Zirconium Sheet / Strip	ASTM B551
Zirconium Tube / Pipe	ASTM B523M
Zirconium Bar / Wire	ASTM B550
Low Hafnium Crystal Zirconium	Zr+Hf>99.95%,Hf<300ppm
Low Hafnium Crystal Zirconium	Zr+Hf>99.95%,Hf<3%
Zirconium Oxide Powder	Zr(Hf)O ₂ >99.95%
Yttria Stabilized Zirconia (YSZ) Powder	Yttria (3 mol%) Stabilized Zirconia Yttria (8 mol%) Fully Stabilized Zirconia
Magnesia Stabilized Zirconia	Zr(Hf)O ₂ :96%; MgO:3.0 ± 0.2 %

Zirconium Fabricated Products

Zirconium Tube



Zirconium Sheet



Zirconium Wire



Zirconium Dioxide



Zirconium Metal Properties (Theoretical)

Molecular Weight	91.22	Tensile Strength	230 MPa
Appearance	White	Thermal Conductivity	0.227 W/cm/K @ 298.2 K
Melting Point	1852 °C	Thermal Expansion	(25 °C) 5.7 $\mu\text{m}\cdot\text{m}^{-1}\cdot\text{K}^{-1}$
Boiling Point	3580 °C	Vickers Hardness	903 MPa
Density	6506 kg/m ³	Young's Modulus	88 GPa
Electrical Resistivity	40.0 microhm-cm @ 20 oC °C		



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